

## Safety Data Sheet

### INFILTRATE - Reg. No: L 10123 (Act No 36 of 1947)

Date of issue: 26/02/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER	
Product name:	Infiltrate
Other means of identification:	Omethoate 800 g/L SL
Recommended use:	Crop protection product, insecticide.
Restrictions on use:	For use as an Agricultural remedy only.
UN No:	3017
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE (OR POISONS HELPLINE): 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	Omethoate
2) Classification of the substance / mixture:	
Classification of the product is based on the co-formulants listed in section 3.	<p><b>Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.</b></p> <p>Acute Tox. 3 H301: Toxic if swallowed.</p> <p>Acute Tox. 4 H312: Harmful in contact with skin.</p> <p>Aquatic Acute 1: H400: Very toxic to aquatic life.</p> <p>Chronic aquatic toxicity: Category 1 H410 Very toxic to aquatic life with long lasting effects.</p> <p>H318: Causes serious eye damage</p> <p>H226: Flammable liquid and vapour.</p> <p>STOT SE 3 H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.</p> <p>GHS06 GHS09 GHS02 GHS03</p>

	<p><b>According to Directive 67/548/EEC or 1999/45/EC</b></p> <p>R10 T: Toxic R25 Xn: Harmful R21 N: Dangerous for the environment. R50 R36/38</p> <p>S1/2: S23 S36/37 S45 S61</p>
<p><b>Label elements</b></p>	<p>Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.</p> <p>Hazard label for supply / use required.</p> <p>Hazardous components which must be listed on the label: Omethoate</p> <div style="text-align: center;"> </div> <p>Pictograms: Skull and cross bones, Environment, Flame. Signal word: Danger</p> <p>Hazard statements:</p> <p>H226: Flammable liquid and vapour H301: Toxic if swallowed. H312: Harmful in contact with skin. H318: Causes serious eye damage H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness H400: Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.</p>
<p><b>Hazards Identification:</b></p>	
<p><b>Health effects: eyes:</b></p>	<p>Causes irritation</p>
<p><b>Health effects: skin:</b></p>	<p>Causes irritation</p>
<p><b>Health effects: ingestion</b></p>	<p>Toxic if swallowed</p>
<p><b>Health effects: inhalation</b></p>	<p>May be harmful</p>
<p><b>3) COMPOSITION / INFORMATION ON INGREDIENTS:</b></p>	
<p>Mixture: preparation based on Omethoate 800 g/L SL</p> <p><b>Hazardous components</b></p> <p>R-phrases according to EC directive 67/548/EEC Hazard statements according to Regulation(EC) No. 1907/2006</p>	

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to Directive 199/45/EC
Omethoate	80.0	1113-02-6	214-197-8	Aquatic acute 1, H400 Aquatic Chronic 1, H410	H302 H373 ** H317 H400 H410
2-methoxy-1-methylethyl acetate (PMA)	14.0	108-65-6	203-603-9	Flam. Liq. 3 H226 R10 S2 H335 H336	GHS02: Warning

Full text of R and S-phrases: see section 15.

#### 4) First Aid Measures:

##### Inhalation:

Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and at rest. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Maintain the airway and administer oxygen if required. Treat symptomatically and supportively. **Seek medical assistance immediately.**

##### Skin contact:

Remove all contaminated clothing, shoes and leather goods immediately. Gently wipe off any excess chemical. Wash skin thoroughly and gently with water and non-abrasive soap. **Seek medical assistance immediately**

##### Eye contact:

In case of eye contact, immediately flush the eyes with clean, gently flowing lukewarm water for at least 20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Seek medical attention if irritation develops and persists.

##### Ingestion

Have the victim rinse their mouth out with water if the patient is alert and able. Keep the patient at rest. Treat symptomatically and supportively. Remove by gastric lavage or emesis, followed by saline cathartic. Give oxygen if respiration is depressed. The administration of gastric lavage or oxygen should be performed by qualified medical personnel. For advice, contact the National Poisons Centre. **Seek medical assistance immediately.** If a water diluted mixture has been swallowed, induce vomiting by tickling the back of the throat. **Seek medical attention immediately. Do not** apply direct mouth – to – mouth respiration. **Never** give anything by mouth to an unconscious person. If concentrate has been swallowed: First give copious amounts of one of the following (if patient is alert and able): Beaten egg white, starch solution or Milk of magnesia before inducing vomiting. Repeat until the vomitus is clear and free of the smell of poison.

##### Most important symptoms and effects, acute and delayed:

Mild intoxication may cause headache, blurred vision, weakness, sweating, mild chest pain, nausea and vomiting. Severe intoxication may cause cyanosis, muscular twitching, spasms, miosis and respiratory paralysis.

##### Indication of immediate medical attention and special treatment needed: Advice to physician

Therapeutic measures: Basic aid, decontamination, symptomatic treatment and, if necessary, administration of an antidote. Administer atropine as early as possible in

	<p>an adequate dosage until signs of atropinisation (dry, flushed skin, tachycardia and pulse rate over 120 beats per minute) occur. In order to prevent gastrointestinal absorption in the unconscious that have swallowed this product, perform stomach lavage using bicarbonate solution and activated charcoal. In less severe cases, begin with 2 mg atropine intravenously for adults or 0.05 mg atropine / kg body weight for children under 12 years of age and repeat administration of the drug at 15 – 30 minute intervals. Repeat if necessary. <b>Morphine and similar drugs are contra-indicated.</b> Avoid aminoglycosides and succinylcholine, which have a blocking effect on the neuromuscular junction. Phenothiazines, reserpine and theophylline are contra-indicated.</p> <p>Antidote: Atropine-sulphate, possibly in conjunction with Tioxogonin or Obidoxime (PAM)</p>
<b>5) Fire-Fighting Measures:</b>	
<p><b>Extinguishing Media:</b></p> <p><b>Unsuitable extinguishing media:</b></p> <p><b>Fire Fighting:</b></p>	<p>Water fog or fine spray, alcohol-resistant foam, carbon dioxide, sand or dry chemical.</p> <p>Do not use high volume water jet, due to contamination risk.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p><b>UNUSUAL FIRE OR EXPLOSION HAZARDS:</b> Generating poisonous and corrosive fumes containing: hydrogen cyanide, sulphur dioxide, carbon monoxide, nitrogen oxides and phosphorus pentoxide.</p>
<b>Protective clothing:</b>	Full protective clothing and self-contained breathing apparatus
<b>6) Accidental Release Measures:</b>	
<p><b>Personal precautions:</b></p> <p><b>Occupational spill:</b></p>	<p>Wear the appropriate safety clothing and eye / face protection. For personal protection see Section 8. Keep people away from, and upwind of, the spill or leak.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with liquid binding material or inert material such as sand, silica gel, acid binder, universal binder, sawdust. . Dike, for large spills, to prevent contamination of local water sources. Wash area with water and detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p>
<b>7) Handling &amp; Storage:</b>	
<b>Handling:</b>	Use good personal hygiene. Avoid contact with skin and eyes. Toxic if swallowed.

<p><b>Storage:</b></p>	<p>Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.  <b>APPROVED HANDLER:</b> This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.</p> <p>Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers, seeds, drink, pharmaceuticals or cosmetics. Store in compliance with local regulations. Protect from excessive heat and cold.  Keep away from children or uninformed persons.  Keep away from combustible material.  No smoking.  Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from freezing.</p>
<p><b>8) Exposure Control / Personal Protection:</b></p>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p>Components with workplace control parameters</p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Avoid contact with product. Keep the working place clean and your work clothes separate. Remove soiled or soaked clothing immediately. Clean it separately taking suitable precautions or destroy if necessary. Wash hands between breaks. Take a shower or a bath at the end of work.</p> <p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment in order to prevent repeated or prolonged skin contact with this substance.</p> <p>An approved respirator suitable for protection from dusts and mists of pesticides is adequate. The limitations of respirator use specified by the approving agency and the manufacturer must be observed.</p> <p>Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.</p> <p>Safety goggles or face shield</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<p><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p>	<p>Liquid</p>
<p><b>Colour:</b></p>	<p>Light brown</p>
<p><b>Odour:</b></p>	<p>Characteristic</p>
<p><b>Odour threshold</b></p>	<p>Not determined</p>
<p><b>Solubility:</b></p>	<p>Soluble in water.</p>
<p><b>pH:</b></p>	<p>2.0 – 5.0</p>
<p><b>Melting point / Freezing point</b></p>	<p>No data available</p>
<p><b>Initial boiling point and boiling range</b></p>	<p>No data available</p>
<p><b>Flash point:</b></p>	<p>45 °C</p>
<p><b>Evaporation rate:</b></p>	<p>Not applicable</p>
<p><b>Flammability (solid, gas)</b></p>	<p>Flammable</p>
<p><b>Upper/ lower flammability or explosive limits:</b></p>	<p>No data available</p>
<p><b>Vapour pressure:</b></p>	<p>No data available</p>
<p><b>Vapour density:</b></p>	<p>No data available</p>

<b>Relative density:</b>	Approximately 1.2
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>	No hazardous reactions known. Hazardous polymerisation does not occur. Combustion or thermal decomposition will evolve toxic and irritating vapours.
<b>Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Avoid strong basic, acidic or oxidising materials.
<b>Hazardous decomposition product(s):</b>	None under normal conditions of storage and of use. When heated to decomposition, irritant or dangerous fumes may be emitted.
<b>Conditions to avoid:</b>	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
<b>Incompatible materials:</b>	Product undergoes decomposition at 130 °C, Incompatible with alkaline materials.  No data available.
<b>11) Toxicological Information:</b>	
Acute Oral : LD50: 40 mg/kg, rat. (Based on data for similar product)	
Acute Dermal : LD50: 500 mg/kg, rabbit.	
Acute Inhalation : Active ingredient: 0.3 mg/ kg, (4h) (aerosol)	
Aspiration toxicity: NA	
Skin irritation: Rabbit: Non-irritating	
Eye irritation: Rabbit: Slight irritant.	
Sensitization : Skin sensitisation is possible in susceptible persons (a.i.)	
Mutagenicity: NA	
Carcinogenicity: NA	
Reproductive toxicity: NA	
Teratogenicity: NA	
Repeated dose toxicity: NA	
<b>12) Ecological Information: Based on technical material</b>	
Bees : Toxic	
Birds : Acute oral LD <sub>50</sub> for male Japanese quail 79.7, female Japanese quail 83.4 mg/kg.	
Fish : LC <sub>50</sub> (96 h) for golden orfe 30, rainbow trout 9.1 mg/l.	
Daphnia : LC <sub>50</sub> (48 h) 0.022 mg/l.	
Algae : ErC <sub>50</sub> for <i>Scenedesmus subspicatus</i> 167.5 mg/l.	
Worms : LC <sub>50</sub> for <i>Eisenia foetida</i> 46 mg/kg dry soil.	
Soil micro-organisms: NA	

**Persistence and degradability:**

**Environment** Omethoate has a relatively high mobility in soil but is very rapidly metabolised; DT<sub>50</sub> only a few days. The main metabolite is CO<sub>2</sub>. Aged leaching studies revealed that metabolites have only a low leaching potential.

**Bioaccumulation:** No

**Biodegradability:** Rapidly metabolised. In soil the half-life is a few days

**Koc:** NA

**Mobility in soil:** Omethoate has a relatively high mobility in soil but is very rapidly metabolised; DT<sub>50</sub> only a few days. The main metabolite is CO<sub>2</sub>. Aged leaching studies revealed that metabolites have only a low leaching potential.

**Results of PBT and vPvB assessment:**

This substance is not considered to be persistent, Bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very Bioaccumulative (vPvB)

**Other adverse effects:**

NA

**13) Disposal Considerations:****Waste Disposal:**

Open dumping or burning of this product is strictly prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed must be disposed of in a landfill approved for pesticide disposal. Do not contaminate rivers, dams or any other water sources with the product or used containers. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Comply with local legislation applying to waste disposal.

**Container Disposal:** Refer to the product label for instructions.

Empty pesticide containers retain vapour and product residues.

Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to at least 30% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the emptied containers by burning or perforation and flattening. Bury in an approved dump site. Do not re-use the empty container for any other purpose. Comply with any local legislation applying to disposal.

**14) Transportation Information:**

UN NUMBER: 3017

Road Transport ADR/ RID:

Class: 6.1

Packaging group: II

Proper shipping name: Organophosphorous pesticide, liquid, toxic, flammable, n.o.s (Omethoate)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

Maritime Transport IMDG / IMO:

Class: 6.1

Packaging group: II

Proper shipping name: Organophosphorous pesticide, liquid, toxic, flammable, n.o.s (Omethoate)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

MARINE POLLUTANT

Air (ICAO / IATA):

Class: 6.1

Packaging group: II

Proper shipping name: Organophosphorous pesticide, liquid, toxic, flammable, n.o.s (Omethoate)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

**15) Regulatory Information:**

**Safety, health and environmental regulations / legislation specific for the substance or mixture.**

To avoid risks to man and the environment, comply with all instructions for use.  
Advice on handling of the product can be found in sections 7 and 8 of this safety data sheet.  
For the proper and safe use of this product, please refer to the approval conditions indicated in the product label.

**Labelling according to EC directives:**

Hazardous components which must be listed on the label: omethoate

**Symbol(s):**

F: Flammable

T: Toxic

Xi : Irritant

N : Dangerous for the environment.

Xn: Harmful

**R-phrase(s):**

R10: Flammable

R 21: Harmful in contact with skin.

R 25: Toxic if swallowed

R 36 / 38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

**S-phrase(s):**

S1/2 - Keep locked up and out of reach of children.

S3/79 – Keep container tightly closed in a cool, well-ventilated place.

S13 – Keep away from food, drink and animal feeding stuffs.

S15 – Keep away from heat.

S20/21 – When using, do not eat drink or smoke.

S23 – Do not breathe vapour.

S28 – After contact with skin, wash immediately with plenty of water and soap.

S26 – In case of contact with eyes, rinse immediately with plenty of water.

S35 – This material and its container must be disposed of in a safe way.

S36/37 – Wear suitable protective clothing and gloves.

S45 – In case of an accident or if you feel unwell, seek medical advice (show label where possible).

S57 - Use appropriate containment to avoid environmental contamination.

S60 - This material and its container must be disposed of as hazardous waste.

S61- Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**Hazard statements:**

H226: Flammable liquid and vapour

H301: Toxic if swallowed.

H312: Harmful in contact with skin.

H318: Causes serious eye damage

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness

H400: Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**16.Other Information**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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